TIRE BARGAINS

FISK, GOODRICH, FIRESTONE All new, first grade, fresh stock, fully guar-

30x3 Non-Skid\$11.00 30x31/2 Non-Skid\$13.95 Extra special prices on all plain tread casings

Drop in and look us over. "The House of the Best for the Least Money

Mack Tire Company

AUTOMOBILE TIRE COMPANY

Oldest Auto Tire Jobbers in the United States and Largest in the World 203 NORTH CENTRAL AVE.

Round the Corner You Go

-Yenck!

-Yenck-k!!

-Yenck-k-k!

-To the Song of Loosened Spokes

An unpleasant sound at best-to say nothing of the unnecessary wear on rim, spokes and hub.

Every turn of the wheels means just that much more worn away. Depreciation increases with every mile.

Stop that noise! Stop that wear and tear on the wheels of your car. Bring it to us, we can tighten the old wheels in a jiffy with the special machines and equipment we have here for that

Drive in tomorrow and let us fix your wheels.

332-334 West Adams Street





Contented Customers

Passing tires across the counter is only part of tire merchandising as we see it.

The vital thing is the establishment of real Customer Friendship, for we want you to buy Oldfield Tires from us every time you need such

equipment.
To cultivate—and keep contented customers is therefore the chief concern of this

organization. Let us show you how this plan works out!

ED RUDOLPH

Grand Ave., Glendale 316-48 E. Adams St., Phoenix

the internal combustion engine is heir is misfiring. Naturally, this complaint varies in malignancy, sometimes afflicting only one cytinder, sometimes more, often being merely temporary. due to some incorrect adjustment.

again being seemingly permanent and calling for drastic action.

Obviously mistiring interferes with the satisfactory operation of the engine. It means that one of more cylinders are not firing, so that those remaining in operation are carrying on all the work. In a six-cylinder engine missing is not so annoying as in four: this is obvious, also it is harder gine missing is not so annoying as in four; this is obvious, also it is harder to detect. In an eight of twelve one of the cylinders may be cut out and the ordinary amateur driver will never detect it. Misfiring is more easily detected at low speeds than at high, because the flow of power when the engine is running slowly tends to become jerky anyway and the jerk caused by a misfiring cylinder makes detection fairly easy.

In a general way the basic causes of misfiring may be divided into three classes: those caused by carburetion

In a general way the basic causes of misfiring may be divided into three classes: those caused by carburetion failures those caused by ignition failures and those caused by some derangement of the valve system.

Misfiring due to carburetion causes may generally be traced to an improperly proportioned mixture; the fuel may be too weak or it may be too strong. The effect will be the same, missing. Under fairly satisfactory conditions of weather if the engine, after being warmed up, begins to misfire it may be assumed that the mixture being fed is either too rich or too lean. That is the first place to begin trying to correct the trouble. Misfires caused by faulty carburetion will not be confined to any one cylinder, jump to another and make its appearance sporadically in all the cylinders. This is obvious because the same carburetor feeds the same mixture to all cylinders.

Two ways of altering the compositions of the same carburetor in the composition of the same carburetor in the composition of the same carburetor feeds the same mixture to all cylinders.

same carburetor feeds the same inixture to all cylinders.

Two ways of altering the composition of the fuel mixture are available—
one by changing the position of the
air control on the dash and the other
by feeding more or less gas. In
either case the relative strength of
the fuel is altered. When misfiring
begins it is good practice to try increasing the amount of air used. If
this is the cause of the trouble the
engine will at once take hold again.
On the other hand if the fuel mixture
was too weak aiready the missing will
grow worse immediately, which is a
sign to cut down the quantity of air
being fed until the engine begins to
function properly. The amount of air function properly. The amount of air should always be just as large as the

should always be just as large as the engine will assimilate.

It may be that there is some mechanical trouble interfering to make the fuel mixture bad. Air leaks around the inlet manifold or vaives will allow too much air to enter. The float of the carburetor may be leaking or it may be stuck, the needle valve may not be seating properly, there may be water in the fuel, dirt on the needle valve, dirt in the fuel or an obstruction in the fuel line. It frequently happens that an engine may run well enough in low speeds but begins missing as the speed increases. When the carburetor has two different adjustments for the different appearance in making adjustments of the carburetor the needle should be moved just a fraction of an inchelither way and the engine tried aftereach change. All adjustments should be made while the engine is hot.

Misfiring caused by ignition faults

be made while the engine is hot.

Misfiring caused by ignition faults is fairly easy to locate because it usually is in the same cylinder. To test a suspected cylinder for ignition misfiring the spark plug is short circuited with a screw driver or similar instrument. When the plug is shorted, with no difference being noticed in the operation of the engine. shorted, with no difference being no-ticed in the operation of the engine, that cylinder is the gulity one. It may be that further inspection may show the spark plug at fault; it may be carbonized, the points may be too far apart or may be burned; the in-sulation may be cracked. At any rate replacement of the plug is the rem-edy. If the plug is found very oily at the bottom this may be causing the misfiring. The oil may have worked it way past faulty piston rings or it way past faulty piston rings or there may simply be too much oil in

THIEF MUST

The auto thief must go. This is one of the slogans of the newly formed Automobile Club of Arizona, which has as its aim service and The auto thief must go. This 12 one of the slogans of the newly formed Automobile Club of Arizona, which has as its aim service and protection to its members in particular and the motoring public in general. The club is modeled after that of southern California and will have branch offices and representatives in every town of the state.

branch offices and representatives in every town of the state.

Theft protection and legal assist-ance are two of the chief advantages of membership, while the dissemina-tion of travel information and the erection of standard auto-road signs will fill a want which has been long will fill a want which has been long felt by auto tourists in this state. Experience has taught the auto Experience has taught the thief that if he can destroy the li-cense number plate or exchange it for another and obliterate the engine

Pike-O Camp Bed

One-half of the pleasure of a motor trip is a com-fortable bed at night.

PIKE-O Camp Beds occupy only a small space on the running board.

PIKE-O has good springs and are very durable.

Come and see our exhibit.

ELECTRIC EQUIPMENT CO. 326-34 E. Washington

number, there remains practically no definite means of identifying his car. Hence the large number of machines which are never returned to their

number, there remains practically no definite means of identifying his car. Hence the large number of machines which are never returned to their owners, once they have failen into the hands of the thief.

How to overcome this has been solved in a simple and yet effective manner by the Automobile Club of Arizona, which, it is believed, will make it absolutely impossible to cover up identify. The plan is this: Every

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faction or money back" guarantee that means what

CHAMPION X

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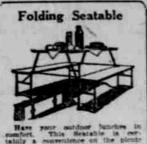


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FOLDING CAMP STOVES Prices run from \$7.35 to \$16.00

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Price \$12.50



Regular type \$4.25 With end gates \$4.85

SUPPLY COMPANY

Phoenix, Ariz.

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For the benefit of our customers with their many dif-ferent tastes, we carry several grades of tires and save you money on all of them. They are all first quality and guaranteed. Visit our tire department and see for your-self the really remarkable values we offer.

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	Size	CASINGS		CASINGS	TUBES
	30x3	Rib	\$8.95	\$9.40	\$1.65
	30x3	NS	11.60	11.60	1.95
	32x3			13.50	2.25
	31x4			15.25	2.75
	32x4			17.30	2.85
٦,	33x4			18.20	2.95
	34x4			18.65	3.05
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PHARIS TIRES 7000-10,000-Mile Guarantee			INDIA TIRES 8000-12,000-Mile Guarantee	
Size	FABRIC	CORD	FABRIC	CORD
30x3	\$12.10		\$15.15	
30x3	14.35	\$21.45	17.90	\$24.45
32x3	18.20	29.65	23.75	32.95
31x4	20.15	2.22	26.00	
32x4	24.20	37.65	28.45	41.80
33x4	25.30	38.80	29.75	43.00
34x4	25.95	39.80	30.20	44.20
32x4		42.60		47.20
33x4		43.55	****	48.45
34x4		44.90		49.75
35x4		45.95	****	50.90
36x4		46.95		52.15
33x5		53.05	****	58.95
35x5		55.70	****	61.80
37x5		58.60	****	64.70